Applicants hereby request, according to 37 CFR 1.143, reconsideration and withdrawal of the requirement to elect a single growth factor embodiment, as stipulated on page eight (8) first paragraph of the Office Action. Accordingly, applicants *provisionally* elect the chimeric growth factor comprising human persephin (SEQ ID NO:1) with the F2c and F2a regions comprising human GDNF F2c and F2a, respectively (SEQ ID NO:20 and 17). The provisionally elected chimeric peptide thus comprises SEQ ID NO:23 and consists of SEQ ID NO:26. Reasons for applicants' traversal of this particular election requirement are provided in the remarks.

Remarks

Applicants argue that all of the growth factor embodiments of the elected claims are *not* independent inventions, as promulgated by the Patent Office on page eight (8), first paragraph, but rather species comprising a single genus as defined in the "linking" claims 1 and 2. Wherein claim1 is drawn to a growth factor, which activates only GFR α 1-RET and claim 2 is further drawn to a chimeric growth factor comprised of GDNF family members or derivatives thereof, the multiple embodiments presented in the subsequent claims are merely species of the genus presented in each of claims 1 and 2. Furthermore and quite simply, the invention is drawn to a persephin with its F2a and F2c regions substituted for the F2a and F2c regions of GDNF family members which engage the GFR α 1-RET receptor. This enables the substituted persephin to engage only GFR α 1-RET, a completely novel activity disclosed in the instant application.

Applicants submit that human, mouse and rat persephin (SEQ ID NO:1-3) are a reasonable number of species within the genus of persephin. Likewise, applicants submit that GDNF, neurturin and artemin are a reasonable number of species comprising the GDNF family of growth factors. However, the invention is not claiming persephin, GDNF, neurturin and artemin, and all chimerical combinations thereof, but merely claims a persephin that contains specific combinations of eleven to twelve amino acid substitutions that span a very narrow portion of the molecule namely the F2a and F2c regions, wherein each set of substitutions confers GFRα1 specificity.

Given the genus claims 1 and 2, and the reasonableness of the number of species within the genus, namely three substituted persephins, wherein each persephin may comprise 1 of 3 possible substitutions, Applicants respectfully submit that the election requirement related to the elected invention number I is not warranted. Applicants therefore respectfully request that this restriction requirement, as stipulated on page eight (8), paragraph one (1), be reconsidered and withdrawn.

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Should any questions arise or if Applicants or Applicants agent can facilitate further examination of this application, it is respectfully requested that the undersigned agent be contacted.

Respectfully submitted,

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July 30, 2001